Express Mail Label No. E00139657615 APR 2006, API NEC' O PCTIPTO 21 APR 2006, PM 180.007-2005)

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TRANSMITTAL LETTER TO THE UNITED STATES	ATTORNEY'S DOCKET NUMBER ON 02-019							
DESIGNATED/ELECTED OFFICE (DO/EO/US)	U.S. APPLICATION NO (Hynown repe-37 CFR 1.5)							
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371	PRIORITY DATE CLAIMED 2 200							
INTERNATIONAL APPLICATION NO. PCT/EP2003/0123449 S November 2003	19 December 2002							
A Process for Keeping a Tuyere Passing	Through a Metallurgical							
Christoph CARLHOFF, Wilhelm MERKENS, an	I Rolf LAMM							
Applicant herewith submits to the United States Designated/Elected Office (DO/E	D/US) the following items and other information:							
1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 37	1.							
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission	n under 35 U.S.C. 371.							
3. This is an express request to begin national examination procedures (35 U.S.C. 37 (5), (6), (9) and (21) indicated below.								
4. The US has been elected (Article 31).	. <i>L</i> r							
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))								
a. is attached hereto (required only if not communicated by the Internatio	nal Bureau).							
b. As been communicated by the International Bureau.	·							
c. is not required, as the application was filed in the United States Receiv	ring Office (RO/US).							
6. An English language translation of the International Application as filed (35 U.S.	C. 371(c)(2)).							
a. is attached hereto.	•							
b. has been previously submitted under 35 U.S.C. 154(d)(4).								
7. Amendments to the claims of the International Application under PCT Article 19	(35 U.S.C. 371(c)(3))							
a. are attached hereto (required only if not communicated by the Interna	a. are attached hereto (required only if not communicated by the International Bureau).							
b. Ave been communicated by the International Bureau.	b. A have been communicated by the International Bureau.							
c. have not been made; however, the time limit for making such amend	ments has NOT expired.							
d. have not been made and will not be made.	d. have not been made and will not be made.							
8. An English language translation of the amendments to the claims under PCT A	rticle 19 (35 U.S.C. 371(c)(3)).							
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).								
10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).								
Items 11 to 20 below concern document(s) or information included:								
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.								
12. An assignment document for recording. A separate cover sheet in compliance w	vith 37 CFR 3.28 and 3.31 is included.							
13. A preliminary amendment.								
14. An Application Data Sheet under 37 CFR 1.78.								
15. A substitute specification.								
16. A power of attorney and/or change of address letter.								
17. A computer-readable form of the sequence listing in accordance with PCT Rule	13ter.2 and 37 CFR 1.821- 1.825.							
18. A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
19. A second copy of the English language translation of the international application	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).							

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IAP15 Rec'd PCT/PTO 21 APR 2006

PTC-1390 (Rev. 07-2005)
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U.S. APPLICATION	15 76	735	PCT/EP2003		DN 02 -019		
20. Other items or information: - Copy of International Preliminary Examination Report - Petition for Revival of an International Application Abandonel United International Application Abandonel United International Application							
The follow	ring fees have b	een submitted			CALCULATIONS	PTO USE ONLY	
21. 🔀 Basic ı	national fee (37	CFR 1.492(a))		\$300	^{\$} 300		
22. 🔀 Examin	ation fee (37 CF	R 1.492(c))					
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 All other situations\$200				\$ 200			
If the written opinion IPEA/US in Search fee (37 CFf International International Search previously of	idicates all claim R 1.445(a)(2)) ha al Searching Au h Report prepar communicated to	or the Internations satisfy provision as been paid on the thorityed by an ISA other the US by the IB	al preliminary examination rens of PCT Article 33(1)-(4) ne international application to r than the US and provided to	\$0 the USPTO as an\$100 o the Office or\$400	s 400		
All other situations.	•••••	• • • • • • • • • • • • • • • • • • • •				 	
	OTAL OF 21, 22				900		
sequence i electronic r	isting in complia nedium) (37 CF	nce with 37 CFR R 1.492(j)).	In paper over 100 sheets (e. 1.821(c) or (e) or computer p of paper or fraction thereof.				
Total Sheets E	Extra Sheets		Number of each additional 50 or fraction RATE thereof (round up to a whole number)				
- 100 =	/50 =			x \$250	s N/A	•	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).			\$ 0				
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$		
Total claims		8 - 20 =	Ø	x \$50	\$ 0		
Independent claims		3 -3=	Ø	x \$200	\$ 0		
MULTIPLE DEPEN	DENT CLAIM(S) (if applicable)		+ \$360	\$ 0		
		•	TOTAL OF ABOVE	CALCULATIONS =	\$ 900		
Applicant claim	s small entity st	atus. See 37 CFR	1.27. Fees above are reduc	ed by 1/2.	N/A		
				SUBTOTAL =	\$ 900		
Processing fee of \$ claimed priority dat			translation later than 30 mont	hs from the earliest	5 N/A	<u>*</u>	
······································	· · · · · · · · · · · · · · · · · · ·		TOTAL	NATIONAL FEE =	\$ 900		
•		• ,	1.21(h)). The assignment mu		s N/A		
				EES ENCLOSED =	\$ 900		
					Amount to be refunded:	\$	
					Amount to be charged	\$	

10/576735 CT/PIO 21 APR 2006

Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

IAP15 Rec'd PCT/DED (G201 APR 2006
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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). FEE TRANSMITTAL For FY 2006			Complete if Known						
			Application Number Not Yet A						
			Filing Date	ŀ	Herewith				
			First Named In	ventor (Christoph CARLHOFF				
			Examiner Nam	re N	Not Yet Assigned				
Applicant claims small entity status. See 37 CFR 1.27			Art Unit	1	Not Yet Assigned				
TOTAL AMOUNT	OF PAYMENT	(\$)	1,500	Attorney Docket No. DN 02-019					
METHOD OF PA	YMENT (chec	k all that appl	ly)						
Check									
Deposit Acc	ount Deposit Ad	count Number:	13-3639	Deposit A	Account Nan	ne: Miner	als Techr	nologies Inc	
For the abo	ve-identified dep	osit account, th		reby authorized t					
√ Char	ge fee(s) indicate	ed below		Char	ae fee(s) ii	ndicated b	elow. excer	ot for the filing fee	
☐ Char	ge any additiona	fee(s) or unde	erpayments of fe	: <u>=</u>	lit any over		•		
	r 37 CFR 1.16 a	nd 1.17		· L Oieu	•		•	ide credit card	
Information and auth	orization on PTO-	2038.	ic. Great Card III	TOTTIBLEOIT SHOULD	not be inclu	ded on the	3 IOIIL I IOI	de creat card	
FEE CALCULA	TION (All the f	ees below ar	e due upon fi	iling or may be	e subject	to a sur	charge.)		
1. BASIC FILING									
	FILI	NG FEES Small Entit	SEAF tv	RCH FEES Small Entity	EXAMI	NATION Small			
Application Ty	pe <u>Fee (</u>	\$) <u>Fee (\$)</u>	Fee (\$	Fee (\$)	Fee (Fee		Fees Paid (\$)	
Utility	300		500	250	200	100)		
Design	200	100	100	50	130	65	5		
Plant	200	100	300	150	160	80)		
Reissue	300	150	500	250	600	300)		
Provisional	200	100	0	0	0	()		
2. EXCESS CLA Fee Description						F	<u>Sr</u> ee (\$)	nall Entity Fee (\$)	
	! ver 20 (includi:	ng Reissues)					50	25	
	dent claim ove		g Reissues)			2	200	100	
Multiple depe	endent claims					3	360	180	
Total Claims		<u>Claims</u> <u>F</u>	<u>ee (\$) </u>	e Paid (\$)		_		ndent Claims	
	or HP = per of total claims p	aid for if greater	than 20			E	<u>ee (\$)</u>	Fee Paid (\$)	
Indep. Claims	•		_	e Paid (\$)					
HP = highest numb	rHP =	XX	areater than 3						
3. APPLICATION	•	лашіз ракі ког, п	greater triair 5.						
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer									
listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50									
sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)									
100 = /50 = (round up to a whole number) x =									
4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount)									
Other (e.g., late filing surcharge): Fee for Petition for Revival of an International ApplUnintentiona 1,500									
SUBMITTED BY									
Signature		·FJ	()	Registration No. (Attorney/Agent)	56 3A7	1	Telephone	610-861-4907	
	me (Print/Type) George H. Fairchild (Attorney/Agent) 56,347								

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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